# Permit Fact Sheet

## General Information

| | |
|---|---|
| Permit Number: | WI-0059528-05-0 |
| Permittee Name: | Schmidts Ponderosa LLC |
| Address: | W3773 Old Dump Road |
| City/State/Zip: | Bonduel WI 54107 |
| Discharge Location: | Main Dairy – W3773 Old Dump Road, Bonduel, WI 54107; NE ¼ Section 28, T26N, R17E<br>Home Farm – N3170 Golden Lane, Bonduel, WI 54107; NE ¼ Section 28, T26N, R17E<br>Bunker Site – N3070 S. Highline Road, Bonduel, WI 54107; SW ¼ Section 27, T26N, R17E |

| **Animal Units** | | | | | |
|---|---|---|---|---|---|
| | **Current AU** | | **Proposed AU**<br>**(Note: If all zeroes, expansions are not expected during permit term)** | | |
| **Animal Type** | **Mixed** | **Individual** | **Mixed** | **Individual** | **Date of Proposed Expansion** |
| Milking and Dry Cows | 2380 | 2431 | 0 | 0 | |
| Heifers (800 lbs. to 1200 lbs.) | 110 | 100 | 0 | 0 | |
| Total | 2490 | 2431 | 0 | 0 | |

## Facility Description

Brief Facility Description : Schmidts Ponderosa LLC is an existing Concentrated Animal Feeding Operation (CAFO) that is owned & operated by Paul Schmidt & family. Schmidts Ponderosa LLC consists of 3 sites: The Main Dairy is located at W3773 Old Dump Road, Bonduel, WI; the Home Farm & Bunker Site are located directly SW & SE of the Main Dairy. Schmidts Ponderosa currently consists of 2,490 animal units (1,500 milking & dry cows, 300 heifers, 0 calves) and is not proposing to expand during the upcoming permit term. Schmidts Ponderosa LLC has total of 2,198 acres available for land application of manure and process wastewater of which 2,181 are spreadable. Of this acreage, 843 acres are owned, and 1,355 acres are controlled though contracts, rental agreements, or manure agreements.

## Substantial Compliance Determination

After a desk top review of all records, reports, compliance schedules, and a site visit on 7/10/2020, this facility has been found to be in substantial compliance with their current permit.

| Sample Point Designation For Animal Waste | | |
|---|---|---|
| **Sample Point Number** | **Sample Point Location, WasteType/sample Contents and Treatment Description (as applicable)** | |
| 001 | Sample point 001 is for liquid waste storage facility #1 (WSF #1). WSF #1 is an earthen-lined impoundment located at the Home Farm southeast of the buildings. This facility has a total volume of 2.1 million gallons and a maximum operating level capacity of 1.5 gallons. Liquid manure from the barn and outdoor lot runoff is stored in this facility. This facility was constructed in 1993 and was last evaluated at the time of construction. See permit schedules | |
| 002 | Sample point 002 is for solid manure sources that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type. | |
| 003 | Sample point 003 is for liquid waste storage facility #2 (WSF #2). WSF #2 is a concrete-lined impoundment located at the Main Dairy Site south of the freestall barns. This facility has a total volume of 3 million gallons and a maximum operating level capacity of 2.6 million gallons. Manure & process wastewater from the freestall barns & parlor are stored in this facility. Prior to storage the manure is run through a solid separator and composted solids are used as bedding. A permanent transfer line connects WSF #2 & WS F#3 to allow pumping between basins. This facility was constructed in 1997, modified in 2011 and was last evaluated at the time of modification in 2011. | |
| 004 | Sample point 004 is for land applied separated manure solids. Fiber is typically reused as bedding and stored in the manure composter shed. Sampling is only required if solids are land applied. If sold or given away for use as bedding or other beneficial use, amounts shall be tracked in annual report each year. The manure composter shed has a concrete floor and walls. It was constructed in 2010 and met permit requirements at the time of construction. | |
| 005 | Sample point 005 is for liquid waste storage facility #3 (WSF #3). WSF #3 is a concrete-lined impoundment located at the Bunker Site ½ mile southeast of the dairy. This facility has a total volume of 6.9 million gallons and a maximum operating level capacity of 6.2 million gallons. Feed leachate & feed storage area runoff are stored in this facility. Manure from WSF #2 at the main dairy can also be pumped to this pit via a permanent transfer line. This facility was constructed in 2011 and met permit requirements at the time of construction. | |
| 006 | Sample point 006 is for visual monitoring and inspection of the concrete feedlot and associated runoff control system located at the home farm. The outdoor lot is approximately 12,000 square feet in size and is located in between the many animal barns. Feedlot runoff gravity flows to a reception tank & is pumped to WSF#1. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. Runoff control system was installed in 1993 & has not been evaluated since the time of construction. | |
| 008 | Sample point 008 is for visual monitoring and inspection of the feed storage area and associated runoff control system. The feed storage area is located on the north end of the Bunker Site production area and consists of a series of concrete bunkers and feed pads. The FSA is approximately 124,000 square feet in size and all leachate & runoff flow to a central collection point. Leachate and first flush runoff gravity flow to WSF #3 and the remaining runoff flows east to a grassed waterway. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. Runoff Control System was installed in 2011 and Feed Storage was last expanded in 2013. | |
| 010 | Sample point 010 is for manure solids removed from bottom of all liquid waste storage facilities. This includes manure-laden solids, manure fiber solids, etc. Representative samples shall be taken from each | |

| Sample Point Designation For Animal Waste | | |
|---|---|---|
| **Sample Point Number** | **Sample Point Location, WasteType/sample Contents and Treatment Description (as applicable)** | |
| | waste storage facility | |
| 011 | Sample point 011 is for visual monitoring and inspection of all production site storm water conveyance systems. This includes roof gutter and downspout structures, drainage tile systems, grassed waterways and other diversion systems that transport uncontaminated storm water. Proper operation and maintenance is required to keep uncontaminated runoff diverted away from manure and process wastewater handling systems. Weekly inspections are required and shall be recorded according to monitoring program. | |

# 1 Livestock Operations - Proposed Operation and Management

**Production Area Discharge Limitations**

Beginning on the effective date of the permit, the permittee may not discharge pollutants from the operation's production area (e.g., manure storage areas, outdoor animal lots, composting and leachate containment systems, milking center wastewater treatment/containment systems, raw material storage areas) to navigable waters, except in the event a 25-year, 24-hour rainfall event (or greater) causes the discharge from a structure which is properly designed and maintained to contain a 25-year, 24-hour rainfall event for this location as determined under s. NR 243.04. If an allowable discharge occurs from the production area, state water quality standards may not be exceeded.

**Runoff Control**

The permit requires control of contaminated runoff from all elements of the production area to prevent a discharge of pollutants to navigable waters in accordance with the Production Area Discharge Limitations and to comply with surface water quality standards and groundwater standards. Beginning on the effective date of this permit, (if needed) interim measures shall be implemented to prevent discharges of pollutants to navigable waters. In addition, permanent runoff control system(s) shall be designed, operated and maintained in accordance with the requirements found in USDA Natural Resources Conservation Service standards and ch. NR 243, Wis. Adm. Code. If any upgrading or modifications to runoff controls are necessary, formal engineering plans and specifications must submitted to the Department for approval.

**Manure and Process Wastewater Storage**

The permit requires the operation to have adequate storage for manure and process wastewater and that storage or containment facilities are designed, operated and maintained to prevent overflows and discharges to waters of the state. In order to prevent overflows, the permittee must maintain levels of materials in liquid storage or containment facilities at or below certain levels including a one foot margin of safety that can never be exceeded. If any upgrading or modifications to the storage facilities are necessary, formal engineering plans and specifications must submitted to the Department for approval.

The permittee currently has approximately 184 days of storage for liquid manure. The permittee must maintain 180 days of storage, unless temporary reductions in required storage are approved by the Department.

**Ancillary Service and Storage Areas**

The permittee shall take preventative maintenance actions and conduct visual inspections to minimize pollutant discharges from areas of the operation that are not part of the production area or land application areas. These areas are called ancillary service and storage areas and include access roads, shipping and receiving areas, maintenance areas, refuse piles and CAFO outdoor vegetated areas.

**Nutrient Management**

With 2490 animal units (1500 milking & dry cows, 300 heifers, and 0 calves) , it is estimated that approximately 20,346,281 gallons of manure and process wastewater will be produced per year. The permittee owns *approximately* 843 acres of cropland and rents about 1,356 controlled through contracts, rental agreements or leases, or under manure agreements. Given the rotation commonly used by the permittee, 2,180 acres are available (or open) to receive manure and process wastewater on an annual basis. The permit requires all landspreading of manure and process wastewater be completed in accordance with an approved nutrient management plan. The permit will require sampling and analysis of manure and process wastewater that will be landspread. Landspreading rates must be adjusted based on sample analysis. The permit requires the permittee to maintain a daily log that documents landspreading activities. The permit also requires the submittal of an annual report that summarizes all landspreading activities. Plans must be updated annually to reflect cropping plans and other operational changes. Among the requirements, the plans must include detailed landspreading information including field by field nutrient budgets.

The permittee is required to implement a number or practices to address potential water quality impacts associated with the land application of manure and process wastewater. Among the permit conditions are restrictions on manure ponding, restrictions on runoff of manure and process wastewater from cropped fields, and setbacks from wells and direct conduits to groundwater (e.g., sinkholes, fractured bedrock at the surface). In addition, the permittee must implement a phosphorus based nutrient management plan that addresses phosphorus delivery to surface waters by basing manure and process wastewater applications on soil test phosphorus levels or the Wisconsin Phosphorus index. Additional phosphorus application restrictions apply to fields that are high in soil test phosphorus (>100 ppm).

The permitee must also implement conservation practices when applying manure near navigable waters and their conduits, referred to as the Surface Water Quality Management Area (SWQMA). These practices include a 100-foot setback from navigable waters and their conduits, a 35-foot vegetated buffer adjacent to the navigable water or conduit, or a practice that provides equivalent pollutant reductions equivalent to or better than the 100-foot setback.

In addition, the permittee must comply with restrictions on land application of manure and process wastewater on frozen or snow-covered ground. Included in these restrictions is a prohibition on surface applications of solid manure ($\geq$12% solids) on frozen or snow-covered ground during February and March.

**Monitoring and Sampling Requirements**

The permittee must submit a monitoring and inspection program that outlines how the permittee will conduct self-inspections to determine compliance with permit conditions. These self-inspections include visual inspections of water lines, diversion devices, storage and containment structures and other parts of the production area. The permit requires periodic inspections and calibrations of landspreading equipment. The permittee must take corrective actions to problems identified inspections or otherwise notify the Department. Samples of manure, process wastewater and soils receiving land applied materials from the operation must also be collected and analyzed.

**Sampling Points**

The permit identifies the different sources of land applied materials (e.g., manure storage facilities, milking centers, egg-washing facilities) as "Sampling Points." For these Sampling Points, the permittee is required to sample and analyze the different sources for nutrients and other parameters which serve as the basis for determining rates of application for these materials. Other areas are also identified as Sampling Points as a means of identifying them as areas requiring action by the permittee, such as an upgrade or evaluation of a certain system or structure (e.g., runoff control systems), even though sampling is not actually required.

## Sample Point Number: 001- WSF #1-Home Farm; 003- WSF #2-Main Dairy; 005- WSF #3-Bunker Site

| Monitoring Requirements and Limitations | | | | | |
|---|---|---|---|---|---|
| **Parameter** | **Limit Type** | **Limit and Units** | **Sample Frequency** | **Sample Type** | **Notes** |
| Nitrogen, Total | | lb/1000gal | 2/Month | Grab | |
| Nitrogen, Available | | lb/1000gal | 2/Month | Calculated | |
| Phosphorus, Total | | lb/1000gal | 2/Month | Grab | |
| Phosphorus, Available | | lb/1000gal | 2/Month | Calculated | |
| Solids, Total | | Percent | 2/Month | Grab | |

### 1.1.1 Changes from Previous Permit

**Sample point language was updated to more accurately describe existing facilities. Sample Point 009 was removed from to the permit as this structure was not constructed during the previous permit and is not anticipated to be constructed during the next permit term.**

### 1.1.2 Explanation of Operation and Management Requirements

**Liquid manure must be properly stored and land applied according to the permit and nutrient management plan.**

## Sample Point Number: 002- Misc Solid Manure; 004- Seperated Manure Fiber; 010- WSF Solids

| Monitoring Requirements and Limitations | | | | | |
|---|---|---|---|---|---|
| **Parameter** | **Limit Type** | **Limit and Units** | **Sample Frequency** | **Sample Type** | **Notes** |
| Nitrogen, Total | | lbs/ton | Quarterly | Grab | |
| Nitrogen, Available | | lbs/ton | Quarterly | Calculated | |
| Phosphorus, Total | | lbs/ton | Quarterly | Grab | |
| Phosphorus, Available | | lbs/ton | Quarterly | Calculated | |
| Solids, Total | | Percent | Quarterly | Grab | |

### 1.1.3 Changes from Previous Permit

**Sample point language was updated to more accurately describe existing facilities. Sample Point 010 was added to the permit to reflect other sources of solid manure that may be land applied and requires sampling.**

### 1.1.4 Explanation of Operation and Management Requirements

**Solid manure sources must be properly sampled and land applied according to the permit and nutrient**

**management plan.**

### Sample Point Number: 006- Home Farm Outdoor Lot; 008- Feed Storage Area , and 011- Storm Water Runoff

#### 1.1.5 Changes from Previous Permit

**Sample point language was updated to more accurately describe existing facilities. Sample Point 011 was added to the permit to reflect other areas that require monitoring. Sample Point 007 was removed as this outdoor lot has been abandoned and no longer requires monitoring.**

#### 1.1.6 Explanation of Operation and Management Requirements

**Proper operation and maintenance is required to ensure unlawful discharges to waters of the state do not occur. Weekly or quarterly inspections are required and shall be recorded according to the monitoring plan.**

# 2 Schedules

## 2.1 Emergency Response Plan

| Required Action | Due Date |
|---|---|
| Develop Emergency Response Plan: Update the written Emergency Response Plan within 30 days of permit coverage and submit to the department. | 05/01/2022 |

## 2.2 Monitoring & Inspection Program

Use of the department's monitoring and inspection program template is encouraged, but optional.

| Required Action | Due Date |
|---|---|
| Proposed Monitoring and Inspection Program: Consistent with the Monitoring and Sampling Requirements subsection, the permittee shall submit a proposed monitoring and inspection program within 60 days of the effective date of this permit. | 06/01/2022 |

## 2.3 Annual Reports

Submit Annual Reports by January 31st of each year in accordance with the Annual Reports subsection in Standard Requirements.

| Required Action | Due Date |
|---|---|
| Submit Annual Report #1: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E. | 01/31/2023 |
| Submit Annual Report #2: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E. | 01/31/2024 |
| Submit Annual Report #3: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E. | 01/31/2025 |
| Submit Annual Report #4: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E. | 01/31/2026 |

| | |
|---|---|
| Submit Annual Report #5: To include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E. | 01/31/2027 |
| Ongoing Annual Reports: Continue to submit Annual Reports until permit reissuance has been completed. | |

## 2.4 Nutrient Management Plan

Submit annual nutrient management plan (NMP) updates by March 31 of each year. Note, in addition to annual NMP updates, submit NMP amendments and substantial revisions to the department for written approval prior to implementation of any changes to the NMP.

| Required Action | Due Date |
|---|---|
| Management Plan Submittal: Submit any necessary updates to the Nutrient Management Plan to meet the conditions outlined in this permit (see conditions in the Livestock Operational and Sampling Requirements section). | |
| Submit NMP Update #1: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D. | 03/31/2023 |
| Submit NMP Update #2: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D. | 03/31/2024 |
| Submit NMP Update #3: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D. | 03/31/2025 |
| Submit NMP Update #4: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D. | 03/31/2026 |
| Submit NMP Update #5: To include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D. | 03/31/2027 |
| Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed. | |

## 2.5 Manure Storage Facility - Engineering Evaluation

Applicable to Sample Point 001, WSF #1-Home Farm

| Required Action | Due Date |
|---|---|
| Retain Expert: Retain a qualified expert to complete an engineering evaluation for the Home Farm manure storage facility and report the name of the expert to the Department. | 07/31/2022 |
| Written Report: Submit a written report evaluating the existing manure storage facility's ability to meet the conditions in the Production Area Discharge Limitations and Manure and Process Wastewater Storage subsections and s. NR 243.15, Wis. Adm. Code. (See Standard Requirements for report details.) | 07/31/2023 |
| Plans and Specifications: Submit plans and specifications for Department review and approval in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code, to permanently correct any adverse manure storage conditions. | 11/30/2024 |
| Corrections and Post Construction Documentation: Complete construction on the manure storage facility that permanently corrects any adverse conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of | 10/31/2025 |

| | |
|---|---|
| completion of the project. | |

## 2.6 Permit Application Submittal

The permittee shall file an application for permit reissuance in accordance with NR 200, Wis. Adm. Code.

| Required Action | Due Date |
|---|---|
| Permit Application Submittal: Submit a complete permit application to the Department no later than 180 days prior to permit expiration. | 09/30/2026 |

## 2.7 Explanation of Schedules

**Emergency Response Plan, Monitoring and Inspection Program – Schedules consistent with permit requirements**

**Annual Reports, Nutrient Management Plan, Submit Permit Reissuance Application - Schedules consistent with permit requirements.**

**2.5 is required due to the age of the facility as allowed under NR 243.16 (2)**

# Special Reporting Requirements

None

# Other Comments:

The production area previously referred to as "Paul's Farm" was removed from the permit as this area has been abandoned during the previous permit term.

# Attachments:

Plan Approval Letter(s)
- 12/30/2021 NMP Conditional Approval
- 12/14/2021 Days of Storage Calculations – R-2020-0205

Compliance Inspection Reports
- 7/10/2020 Reissuance Inspection

Public Notice

# Proposed Expiration Date:

**03/31/2027**

**Prepared By:**

**Brian Hanson Wastewater Specialist**

**Date: 1/26/2022**

**State of Wisconsin**
**DEPARTMENT OF NATURAL RESOURCES**
**1300 W. Clairemont Ave.**
**Eau Claire WI 54701**

**Tony Evers, Governor**
**Preston D. Cole, Secretary**
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

December 30, 2021

Shawano County
Approval

Paul Schmidt
Schmidts Ponderosa LLC
W3773 Old Dump Road
Bonduel, WI 54107

SUBJECT: Conditional Approval of Schmidts Ponderosa LLC Nutrient Management Plan, WPDES Permit No. 0059528-04-0

Dear Mr. Schmidt:

After completing a review of Schmidts Ponderosa LLC 2021-2025 Nutrient Management Plan (NMP) the Wisconsin Department of Natural Resources (Department) is providing conditional approval that it is consistent with Nutrient Management Requirements in s. NR 243, Wis. Adm. Code. This part of your WPDES permit application is now ready for the public notice and comment process as required by Ch. 283 Stats.

Before applying manure onto approved fields each season, the Department recommends Schmidts Ponderosa LLC review the NMP with those individuals involved with manure applications to ensure all remain familiar with the approved manure spreading protocol, spreading maps, field and map verification, record keeping requirements, and all the conditions of this approval. Specifically, some fields in Schmidts Ponderosa LLC may have:

- Soils that may have bedrock or groundwater within 24 inches of surface,
- Multiple setback areas due to streams, conduits to streams, grassed waterways, wetlands or wells, and
- Evidence of possible soil erosion/flow channels. Note: road ditches or other man made channels may be considered flow channels or conduits to navigable water and may be subject to a SWQMA and setback.

Reviewing the NMP and checking fields for these features and soil conditions prior to manure applications will help Schmidts Ponderosa LLC maintain compliance with their WPDES permit and Ch. NR 243 requirements.

## FINDINGS OF FACT

The Department confirms that:

1. A current dairy herd size of 2490 animal units (1500 milking & dry cows, 300 heifers, and 0 calves). Currently there are no planned expansions in the next permit term.
2. Manure generation and spreading records indicate your herd will annually generate approximately 20,002,000 gallons of manure and process wastewater in the first year of the permit term.
3. The use of application restriction options 1 and 5 within surface water quality management areas.
4. The use of phosphorus delivery method P Index.
5. That Schmidts Ponderosa LLC currently has 2,198.33 acres (842.7 owned and 1,355.63 controlled through contracts, rental agreements or leases, or under manure agreements) of which 2,180.80 are spreadable acres.

6. That no fields are directly adjacent to or have high potential to deliver nutrients and sediment to a 303(d) impaired water.
7. That no fields are directly adjacent to or have high potential to deliver nutrients and sediment to outstanding/exceptional waters.
8. That 47 fields are tiled.
9. That all fields will be checked for the following features prior to/during manure or process wastewater applications: soil areas with possible shallow groundwater (i.e., within 24 inches of surface) at the time of manure application; required setbacks associated with wells, navigable waters, conduits to navigable waters, grassed waterways, wetlands, possible soil erosion/flow channels.
10. That surface applications of manure will not be completed when precipitation capable of producing runoff is forecasted within 24 hours of the time of planned application.

## CONDITIONAL NUTRIENT MANAGEMENT PLAN APPROVAL

The Department hereby approves the 2021-2025 Schmidts Ponderosa LLC Nutrient Management Plan subject to the following conditions and the applicable requirements of Ch. NR 243, Wis. Adm. Code:

FIELD AND MANURE MANAGEMENT

1. Fields not included in the NMP and new fields shall not receive manure or process wastewater applications until they have been properly soil sampled, entered into Snap Plus, evaluated for their nutrient needs, and approved by the Department.

   If Schmidts Ponderosa LLC wishes to use these fields for applications of manure or process wastewater all necessary information shall be submitted to the Department prior to application to demonstrate compliance with NR 243 and other applicable codes. Written Department approval amending this condition approval must be received prior to application.

2. If existing fields yield a soil test results equal to or greater than 200 ppm P, those fields would be prohibited from receiving manure or process wastewater applications, unless you obtain Department approval in accordance with NR 243.14(5)(b)2., Wis. Adm. Code.

3. All liquid manure samples collected may be analyzed, at a minimum, for percent dry matter, total nitrogen, percent $NH_4$-N, percent $NO_3$-N, phosphorus, potassium, and sulfur.

4. If manure sample results have a dry matter (DM) content less than 2.0% and the percent ammonium ($NH_4^+$) is greater than 75% of the total N, Schmidts Ponderosa LLC may use the following equation to adjust the first year available nitrogen when applications are injected or incorporated within 1 hour:

   $$\text{First-Year Available N} = NH_4\text{-N} + [0.25 \times (\text{Total N} - NH_4\text{-N})]$$

5. Schmidts Ponderosa LLC shall record daily manure applications by using form 3200-123A.

6. Schmidts Ponderosa LLC shall annually submit a spreading report that summarizes the land application activities listed under NR 243.19(3)(c)5., Wis. Adm. Code by using form 3200-123.

WINTER SPREADING

7. Liquid manure applications during winter conditions, as defined by NR 243.14(7), Wis. Adm. Code, are prohibited with the exception of emergency applications.

8. The following field(s) are approved for winter spreading solid manure, emergency applications of liquid manure and frozen liquid manure:
   - 01
   - 03
   - 04
   - 05
   - 09
   - 17
   - 32
   - 33
   - 45
   - DH10A/B
   - K67B
   - P12

9. Winter spreading of solid and liquid manure may not occur during the "high risk runoff period" pursuant to s. NR 243.14(6)(c) and NR 243.14(7)(c), respectively.

10. Winter applications of liquid manure shall only occur under emergency situations, after notifying the Department and receiving verbal approval.

11. Liquid applications shall be limited to 3,500 gallons per acre or 30 lbs. P per acre, whichever is less, on slopes 2-6% and 7,000 gallons per acre or 60 lbs. P per acre, whichever is less, on slopes 0-2%. Winter applications of solid manure shall be limited to 60 lbs. P per acre.

HEADLAND STACKING

12. No headland stacking sites are approved.

MANURE & PROCESS WASTEWATER IRRIGATION

13. Irrigation of manure or process wastewater is prohibited.

SUBMITAL AND RECORDKEEPING REQUIREMENTS

14. A copy of this conditional approval shall be included in all future annual Nutrient Management Plan Updates in addition to the NR 243 and NRCS 590 checklists.

This conditional approval does not limit the Department's regulatory authority to require NMP revisions (based upon new information or manure irrigation research findings) or request additional information in order to confirm or ensure your farm operation remains in compliance with NR 243 and your WPDES permit conditions. If additional information, project changes or other circumstances indicate a possible need to modify this approval, the Department may ask you to provide further information relating to this activity.

Please keep in mind that approval by the Department of Natural Resources – Runoff Management Program does not relieve you of obligations to meet all other applicable federal, state or locate permits, zoning and regulatory requirements.

If you have any questions regarding this approval I can be reached at 920-360-9010 or Brandon.Flenz@Wisconsin.gov.

Sincerely,

Brandon Flenz
WDNR Agricultural Runoff Specialist
Wisconsin Department of Natural Resources

cc: Brian Hanson, WDNR Agricultural Runoff Specialist (Brian.Hanson@wisconsin.gov)
Joseph Baeten, WDNR Watershed Field Supervisor (Joseph.Baeten@wisconsin.gov)
Chris Clayton, WDNR Ag Runoff Section Chief (Christopherr.Clayton@Wisconsin.gov)
Tony Salituro, WDNR Intake Specialist (Anthony.Salituro@Wisconsin.gov)
Aaron Orourke, WDNR CAFO NMP Reviewer (Aaron.Orourke@Wisconsin.gov)
Scott Frank, County Conservationist (Scott.Frank@co.shawano.wi.us)
Nathen Nysse, Tilth Agronomy (nathen@tilthag.com)
File

**State of Wisconsin**
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**TTY Access via relay - 711**

December 14, 2021

FILE REF: R-2020-0205
WPDES Permit #: WI-0059528

Paul Schmidt
Schmidts Ponderosa LLC
W3773 Old Dump Rd
Bonduel, WI 54107

Subject: Days of Storage Review for Schmidts Ponderosa LLC, NE¼ of NE¼ T26N, R17E, Section 28 in Hartland Township, Shawano County – NO ADDITIONAL ACTION REQUIRED

Dear Mr. Schmidt:

This letter is to inform you that the Wisconsin Department of Natural Resources (Department) has completed its review of the calculation of days of storage submitted under certification by Blake Schuebel, Shawano County and Nathen Nysse, Tilth Agronomy on October 24, 2020 with revisions received on November 15, 2021 on behalf of Schmidts Ponderosa LLC.

The Department reviewed the submitted calculations in accordance with ss. NR 243.14(9) and NR 243.15(3)(i) to (k), Wis. Adm. Code. Under s. NR 243.17(3)(c), Wis. Adm. Code, the permittee shall demonstrate compliance with the 180-day design storage capacity requirement at specified times. For the following liquid manure storage calculations, the Department has determined **no additional actions** on your part are required.

**Days of Available Liquid Waste Storage:** The submitted information states that Schmidts Ponderosa LLC has 184 days of liquid waste storage based on the volumes listed in the table below with respect to s. NR 243.15(3)(i) to (k), Wis. Adm. Code. The current number of animal units provided for the calculation is 2,490. The liquid waste volumes are based on manure hauling logs and a collection period of 365 days. All runoff, up to the 25yr – 24hr storm, is collected from the Home Farm outdoor lot. A first flush of 0.05" is collected from the feed storage area, with the remainder transferred to a VTA on site.

| Waste Storage | Total Vol. from Settled Top to Bottom | -Solids Storage | -25-yr, 24-hr Precip. on Storage | 25-yr, 24-hr Collected Runoff | -Freeboard Vol. | Max. Operating Level (MOL) Vol. |
|---|---|---|---|---|---|---|
| #1 | 3,049,363 | 79,460 | 108,764 | | 300,103 | 2,561,036 |
| #2 | 6,939,241 | 0 | 194,130 | 4,000 | 545,122 | 6,195,989 |
| #3 | 2,056,115 | 173,308 | 97,326 | 25,701 | 271,615 | 1,488,165 |
| | | | | | Total MOL Vol: | 10,245,190 |
| | | | | | Days of Storage: | **184** |

| Year | Gallons Applied | Avg. Yearly AUs | Gallons/AU |
|---|---|---|---|
| 2015 | 14,537,369 | 1,910 | 7,611 |
| 2016 | 14,925,924 | 2,004 | 7,448 |
| 2017 | 18,970,265 | 2,014 | 9,419 |
| 2018 | 21,863,500 | 2,363 | 9,252 |
| 2019 | 19,629,655 | 2,755 | 7,125 |
| Average Volume/AU | | | 8,171 |
| **Average Annual Volume for Current AUs** | | | **20,346,281** |

Should you have any questions, please contact Tony Salituro, DNR Madison office or your regional CAFO Specialist.

**NOTICE OF APPEAL RIGHTS**

If you believe that you have a right to challenge this decision, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to WIS. STAT. §§ 227.52 and 227.53, you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to WIS. STAT. § 227.42, you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with WIS. ADMIN. CODE § NR 2.05(5), and served on the Secretary in accordance with WIS. ADMIN. CODE § NR 2.03. The filing of a request for a contested case hearing does not extend the 30-day period for filing a petition for judicial review.

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

Bernie Michaud, P.E.
CAFO Engineer Supervisor
Watershed Management Program

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**State of Wisconsin**
**DEPARTMENT OF NATURAL RESOURCES**
**2984 Shawano Avenue**
**Green Bay WI 54313-6727**

**Tony Evers, Governor**
**Preston D. Cole, Secretary**
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

7/29/2020

Paul Schmidt
Schmidts Ponderosa LLC
W3773 Old Dump Road
Bonduel, WI 54107

WPDES Permit No. WI-0059528-04-0

Shawano County

**Subject: 07/10/2020 Permit Reissuance Inspection**

Dear Mr. Schmidt:

On July 10,2020 the Department of Natural Resources met with the representatives of Schmidts Ponderosa LLC to conduct a full compliance inspection for permit reissuance. Department observations and a record of our conversations are included in the enclosed report.

The final pages of the report include a summary section identifying areas of concern as well as a list of actions items to be completed prior to permit reissuance.

Schmidts Ponderosa LLC must submit a complete permit reissuance application through the Department's ePermitting System no later than **October 31, 2020**. A list of all materials required for a complete application have been provided within the enclosed report. If you have any questions regarding the final application materials or the ePermitting submittal process feel free to contact me (contact info below) or Tony Salituro at (608) 267-7150 or Anthony.Salituro@Wisconsin.gov.

Sincerely,

Brian Hanson

Brian Hanson
Agricultural Runoff Management Specialist
920-366-3302
brian.hanson@wisonsin.gov

Enc: July 10, 2020 Inspection Report

ec: Shawano County LCD
Joe Baeten, Tony Salituro - DNR
Nathen Nysse – Tilth Agronomy

**CAFO Compliance Inspection Report**

Inspection Date: 7/10/2020

Report Final Date: 7/29/2020

Operation Name: Schmidts Ponderosa LLC

WPDES Permit #: WI-0059528-04-0

Farm Address: **Main Dairy** - W3773 Old Dump Road, Bonduel, WI 54107; NE ¼ Section 28, T26N, R17E

**Home Farm** - N3170 Golden Lane, Bonduel, WI 54107; NE ¼ Section 28, T26N, R17E

**Bunker Site** - N3070 S. Highline Road, Bonduel, WI 54107; SW ¼ Section 27, T26N, R17E

On-Site Representative(s): Paul Schmidt & Andrew Schmidt (Owners & Operators) Nathen Nysse (Tilth Agronomy)

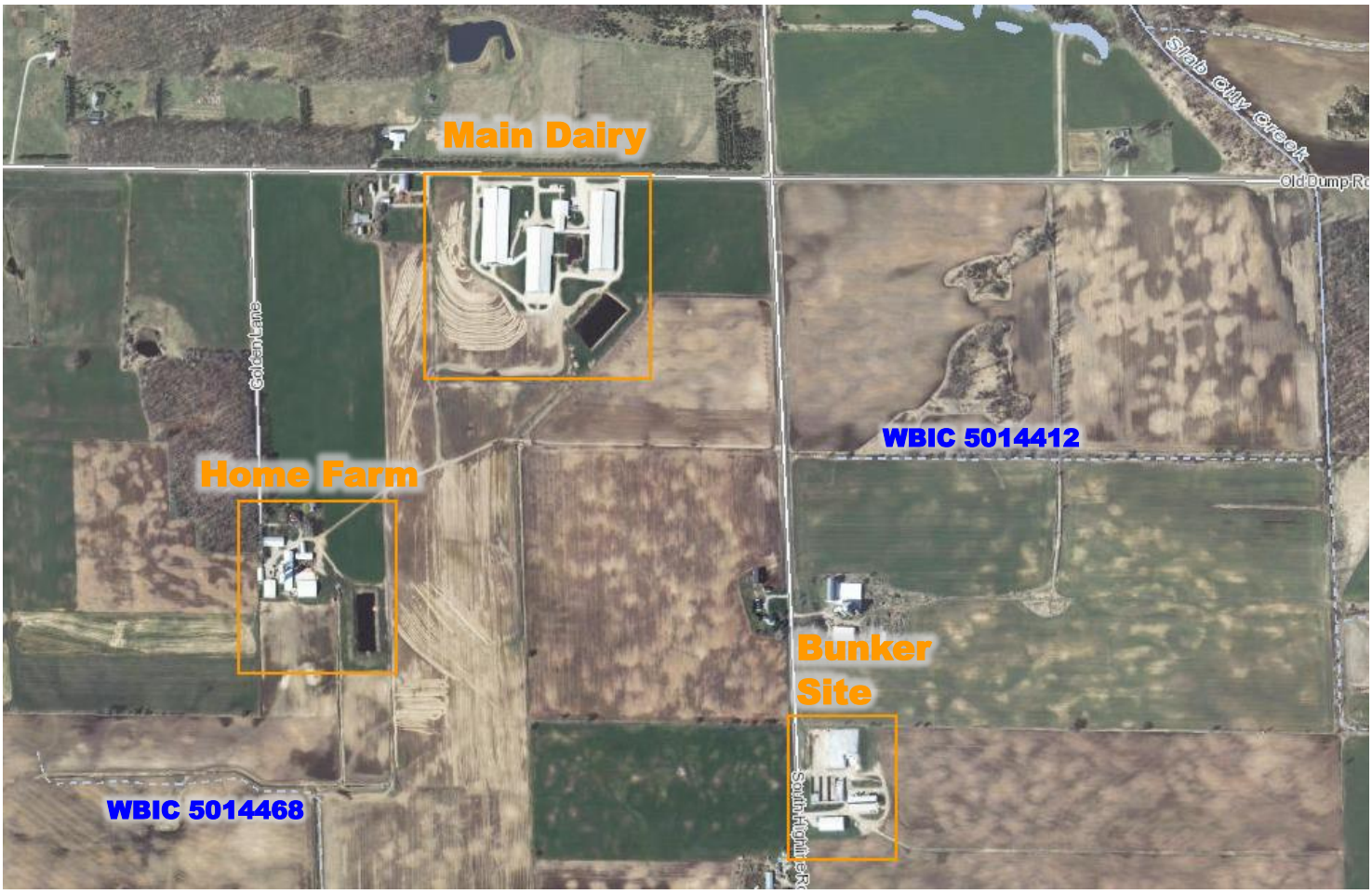
Report Author: Brian Hanson: DNR Agricultural Runoff Specialist

Other Participating Agencies: Blake Schuebel & Sam Okkema ( Shawano County Land Conservation)

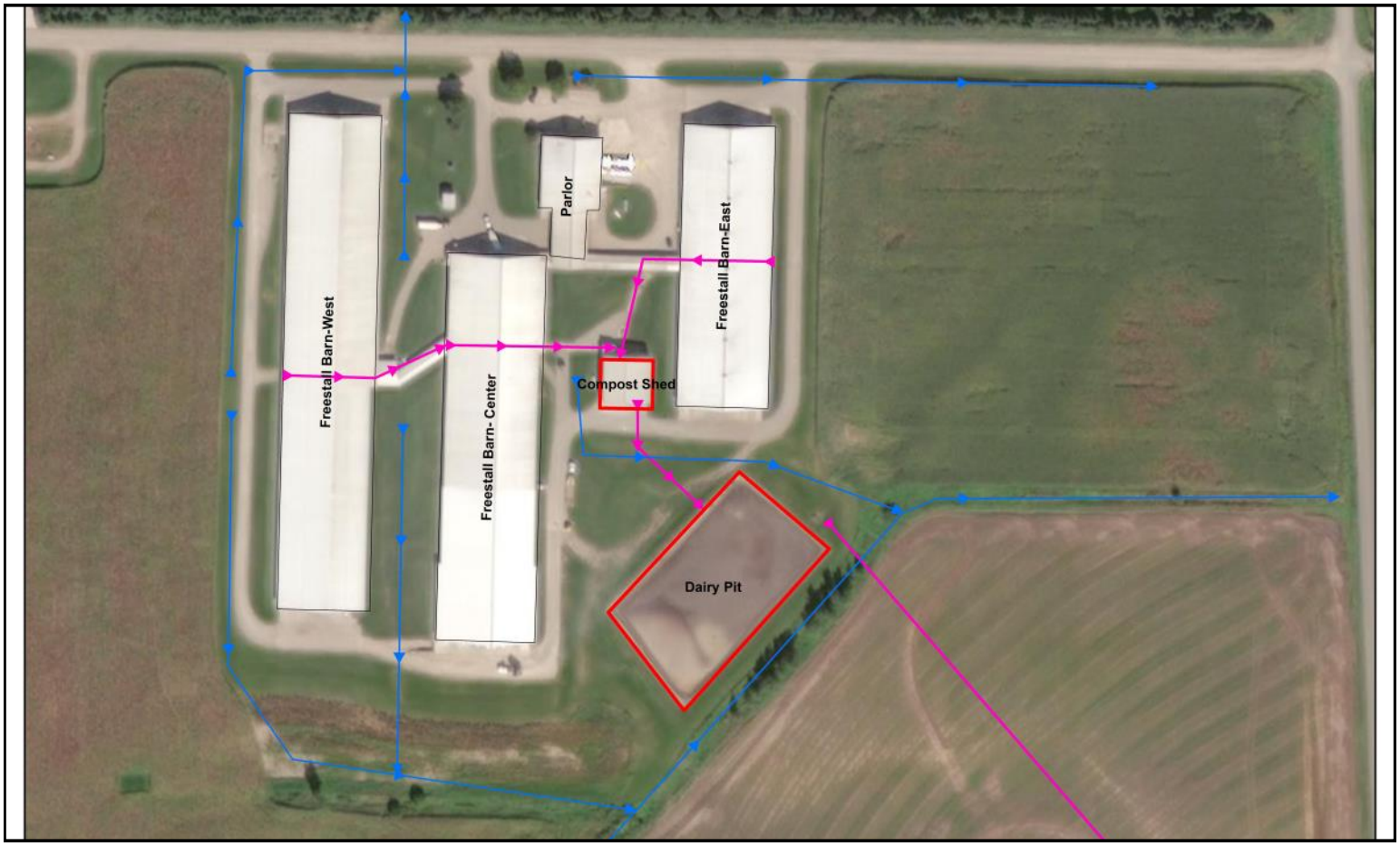
**Introduction**

On Friday July 10, 2020 Hanson met with Schmidt, Schmidt, Nysse, Schuebel & Okkema at 13:00 at Schmidts Pondeosa Dairy site to conduct a permit reissuance walkover inspection. All three sites were inspected. No liquid precipitation had fallen recently and the temperature was in the 80's and sunny. No permit violations were observed, and no water samples were collected. Hanson departed at approximately 14:30.

**Site Overview Diagram (Main Dairy, Home Farm & Bunker Site)**

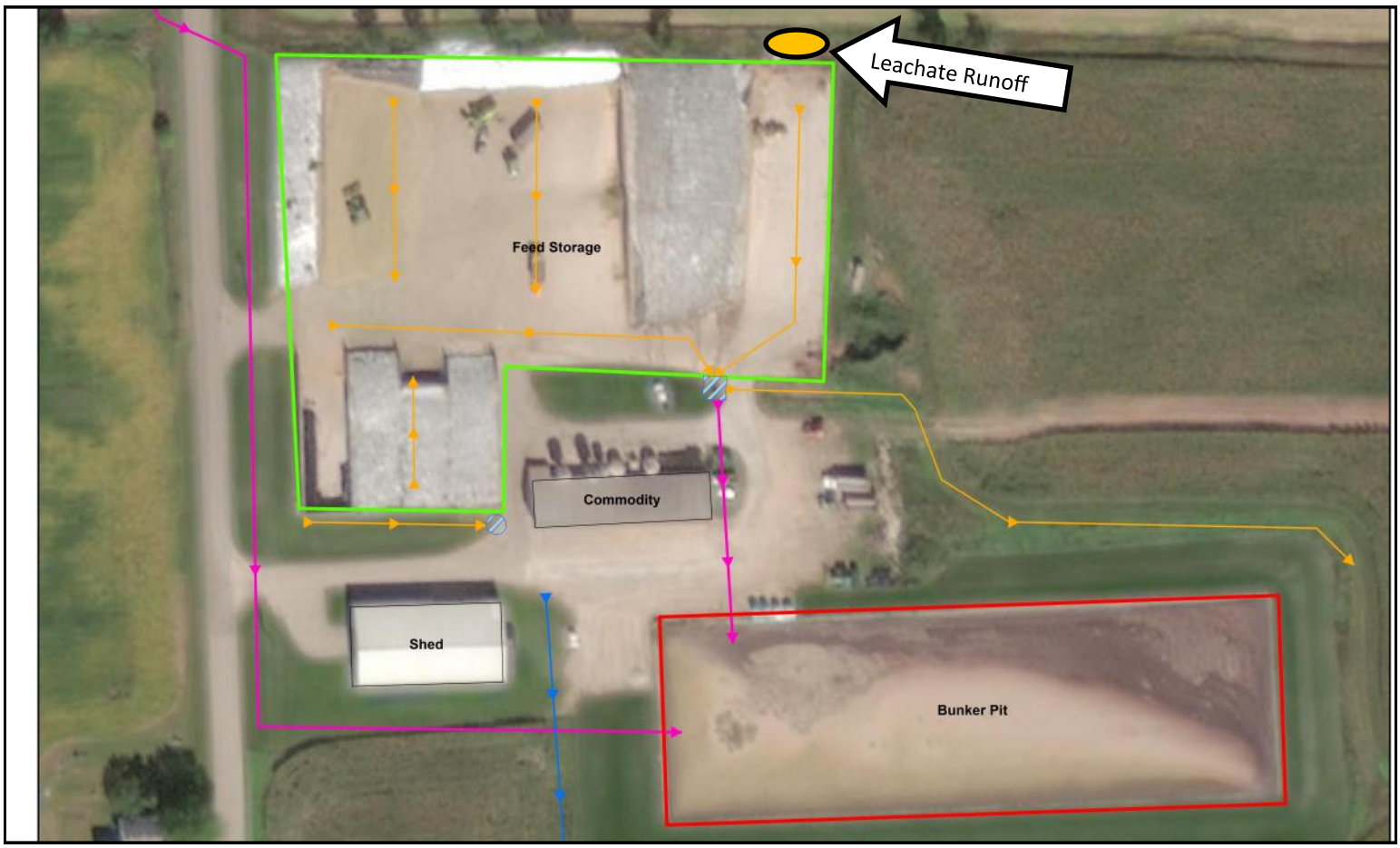


**Site Overview Diagram (**Main Dairy: orange lines =contaminated runoff, blue lines = stormwater flow, pink lines = waste transfer system)




**Site Overview Diagram (**Home Farm: orange lines =contaminated runoff, blue lines= stormwater flow, pink lines= waste transfer system))

**Site Overview Diagram** (Bunker Site: orange lines =contaminated runoff, blue lines= stormwater flow, pink lines= **waste transfer system)**




**SITE OBSERVATIONS :**

Feedlot Runoff

There is 1 feedlot runoff system located on the farm. This site is located at the home farm. Manure & feedlot runoff from the lot flow to an underground reception tank. When full, the reception tank is then pumped to the waste storage facility onsite. (WSF #1). Feedlot areas are managed to not have current or past indicators of discharges. Feedlot runoff control systems are well-maintained, in good repair and in compliance with permit requirements.

Calf Hutch Areas

There are no calf hutches located on the farm at this time. Most calves and youngstock are raised by a separate custom heifer raising facility.

Waste Storage Facilities

There are 3 liquid waste storage facilities located on the farm. They are as follows: Main Dairy Pit, Home Farm Pit, & Bunker Pit.

Manure at the main dairy is collected in a central reception tank near the composting shed. Manure is then put through a series of solids separators and then a composting drum unit. The resulting solids are stored in the adjacent solids storage building to be used as a bedding material and the liquids are transferred to the Main Dairy Pit. A permanent waste transfer line on the east side of the pit allows manure to be pumped from the Main Dairy Pit to the Bunker Pit 1/2 mile down the road. This occurs every few weeks as needed and is controlled manually by staff.

The Home Farm Pit accepts manure and runoff from the outdoor lots and associated barns. Solid manure from the barns is also collected in a box spreader and either land applied or stacked on the sidewalls of the Home Farm Pit.

The Bunker Pit does not directly accept any manure, except for periodic transfers from the Main Dairy Pit through the permanent transfer system. Leachate and feedpad runoff are collected and gravity flow to the Bunker Pit

Solid and liquid waste storage structures are well-maintained, in good repair, and in compliance with permit requirements. Liquid waste storage facilities have permanent markers installed. See photo log for details.

Process Wastewater (other than feed storage area leachate/runoff)

Milking parlor washwater at the Main Dairy is collected and mixed with the manure from the dairy barns in the central reception collection system prior to solid separation building. Any liquid from this system is eventually stored in the Main Dairy Pit.

Feed Storage Area Runoff

All feed storage areas and runoff controls are located at the Bunker Site. Surface drainage of leachate and runoff is directed to a centralized collection point which gravity flows to the Bunker Pit. A series of stop logs direct the first flush into the system and the remaining runoff overflows through a culvert into the nearby field via a concentrated flow channel. The concentrated flow channel was well vegetated and showed no signs of burnt vegetation, however there were a few spots showing accumulated feed solids in the channel. See photos 1154 & 1159. Schmidts Pondersa should continue to keep feedpad clean or remove additional stop logs to reduce the chances of feed solids from entering the overflow channel.

There was also a small area of ponded leachate in the northeast corner of the feedpad that appeared to have flowed off of the feedpad and into a nearby grassy area. This most likely occurred from a combination of improper drainage of stormwater being allowed to enter the feedpad at this location & the feed pile extending beyond the edge of the feedpad slightly. See photo 1172. The farm should immediately clean up the leachate and correct the drainage issues in this area to prevent future occurrences.

The south side of the bunker walls appeared to be starting to deteriorate and had multiple cracks where leachate was present along the wall footing. A tile drain system is present along this section of wall and appeared to collecting leachate into a plastic reception tank. See photo 1185. The farm should continue to monitor this area for possible runoff and consider further maintenance of these bunker walls to prevent possible future discharges.

With the exception of the 2 issued previously noted, the feed storage areas and runoff control systems are well-maintained, in good repair and in compliance with permit requirements.

Animal Mortality Disposal

Mortalities are moved to central location near the solids separation building and picked up daily as needed by OJ Krull.

Ancillary Service Areas

Preventative maintenance actions and visual inspections are occurring to minimize pollutant discharges from ancillary service and storage areas (i.e. storm water conveyance systems, driveways, etc.). At the time of the inspection, all stormwater channels were well vegetated and other areas were free of manure & feed solids. Farm should continue to manage these areas to minimize the chance of runoff from the production area.

The farm does not have any CAFO outdoor vegetated areas as part of their operation.

RECORDS REVIEW

The permittee has current WPDES Permit and Nutrient Management Plan onsite, is located in office.

The permittee provided complete production site inspection records that are required to be retained. Daily Hauling logs, CAFO Calendar for required inspections and manure pit volume logs were all available for inspection.

The permittee provided adequate documentation that the facility has a minimum of 180 days of liquid manure storage capacity. Recent increases in animal units have brought the farm very close to the 180 day limit and the farm will need to closely review animal units and storage volume as part of the reissue application. Tilth Agronomy & Shawano County LCD agreed to review these calculations & evaluate the farms ability to maintain the 180 day of liquid storage requirement.

The permittee provided land application records to demonstrate compliance with nutrient management plan requirements.

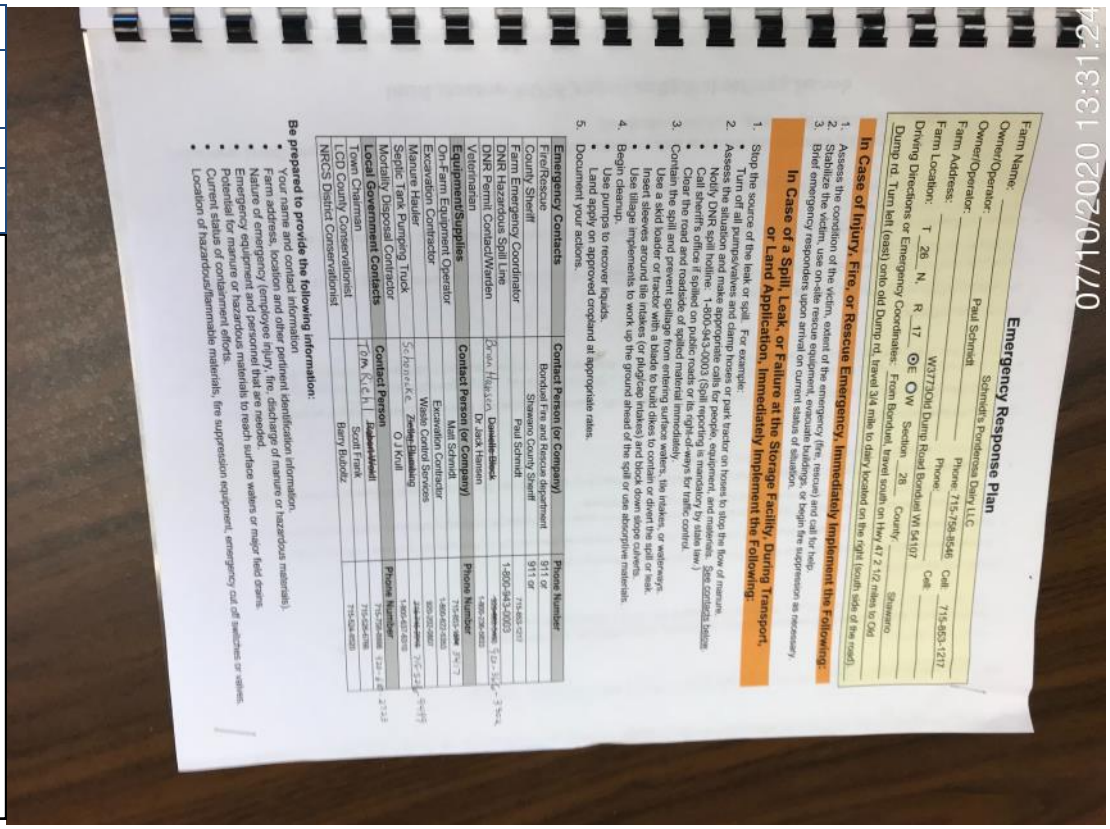
The permittee has copies of their emergency response and monitoring and inspection plans onsite.

The permittee is up to date on required reporting and actions as specified in the Schedules section of permit.

| | |
|---|---|
| **Photo #:** | 1071 |
| **Date/Time of Photo:** | 7/10/2020 13:31 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Office |

**Photo Description:**

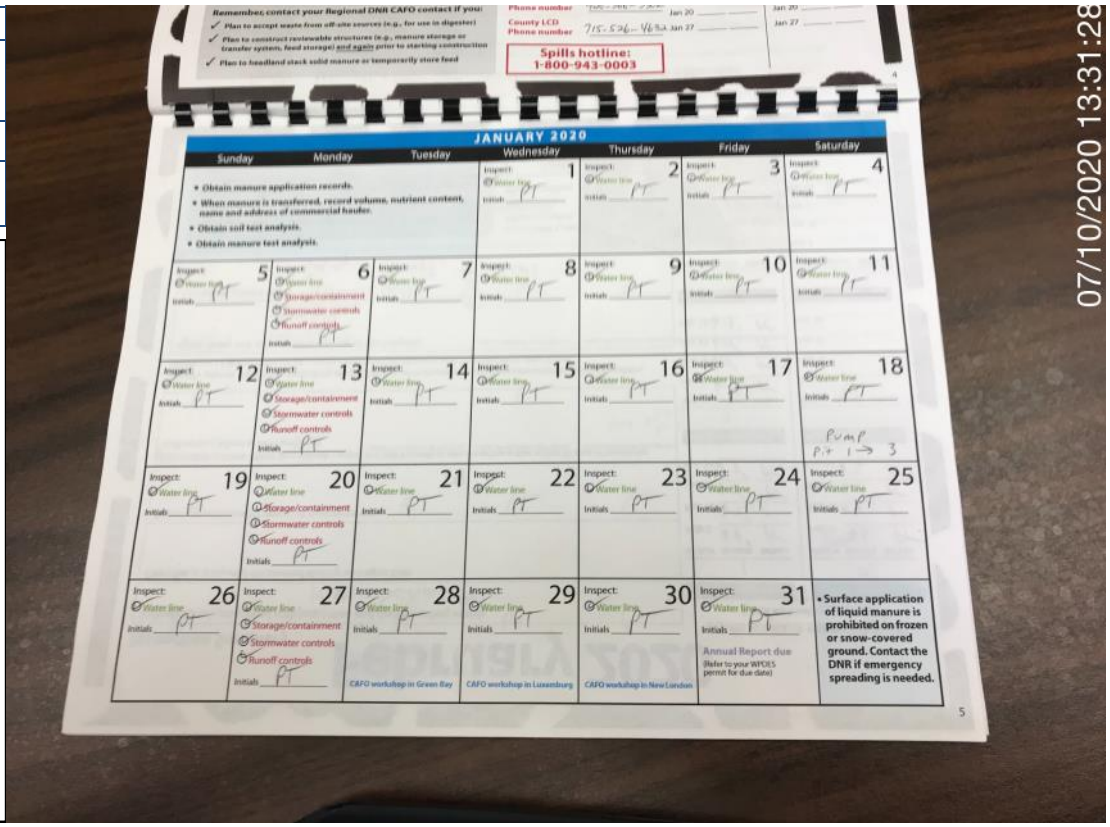
Copy of onsite Emergency Response Plan




| | |
|---|---|
| **Photo #:** | 1072 |
| **Date/Time of Photo:** | 7/10/2020 13:31 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Office |

**Photo Description:**

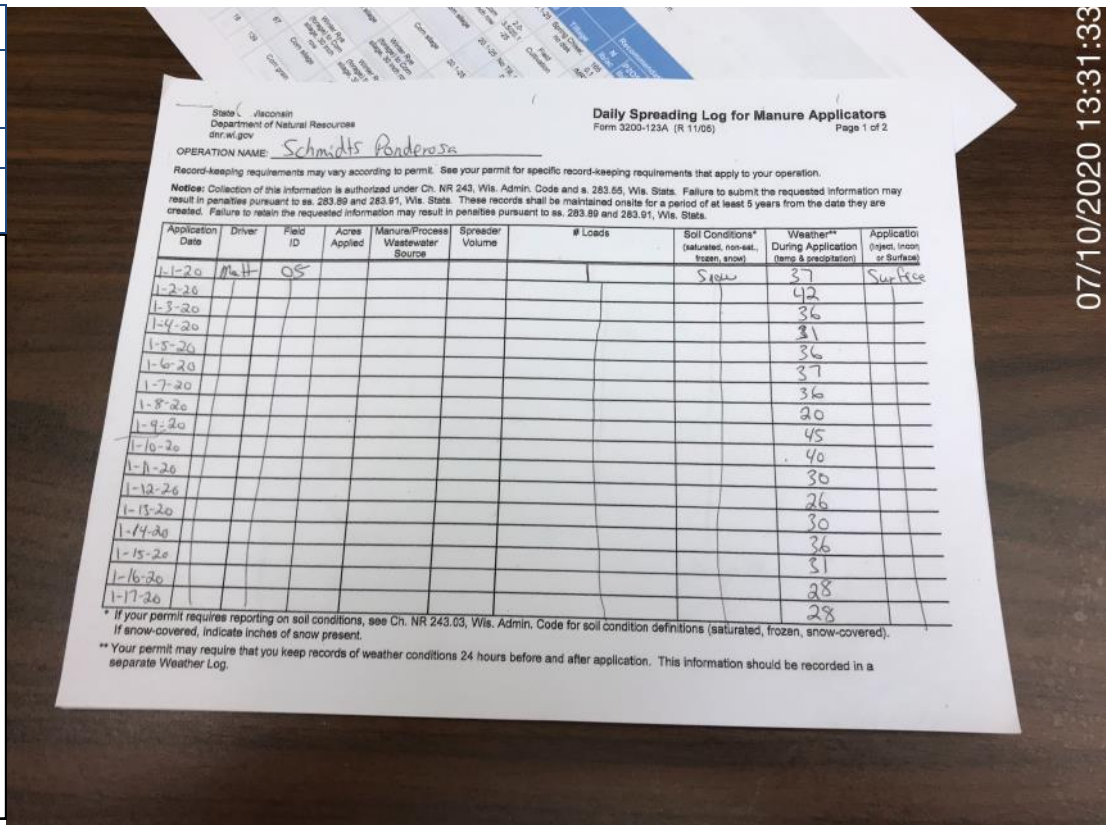
CAFO Calendar is used to record daily, weekly & quarterly inspections



| | |
|---|---|
| **Photo #:** | 1073 |
| **Date/Time of Photo:** | 7/10/2020 13:32 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Office |

**Photo Description:**

Form 3200-123A is used to track daily manure applications




| | |
|---|---|
| **Photo #:** | 1077 |
| **Date/Time of Photo:** | 7/10/2020 13:37 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Main Dairy |

**Photo Description:**

Looking south. View of storm water channel on east side of freestall barns.

| | |
|---|---|
| **Photo #:** | 1078 |
| **Date/Time of Photo:** | 7/10/2020 13:38 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Main Dairy |

**Photo Description:**

Standing at NE corner of WSF #2, looking West.: View of WSF #2, sample point 3. Manure pit in good condition with proper safety fence installed


| | |
|---|---|
| **Photo #:** | 1082 |
| **Date/Time of Photo:** | 7/10/2020 13:39 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Main Dairy |

**Photo Description:**

Standing at SE corner of WSF #2, looking West: View of Mol & MOS markers in WSF at Main Dairy. Red arrows point to the level indicators.

| | |
|---|---|
| **Photo #:** | 1080 |
| **Date/Time of Photo:** | 7/10/2020 13:39 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Main Dairy |

**Photo Description:**

Looking East: View of waste transfer system on east end of WSF at the Main Dairy. The farm uses this transfer system to pump manure from main dairy to manure storage at Bunker site. This is manually controlled every few weeks as needed.


| | |
|---|---|
| **Photo #:** | 1087 |
| **Date/Time of Photo:** | 7/10/2020 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Main Dairy |

**Photo Description:**

Looking West: View of storm water flow path on north side of WSF at main dairy. Arrow indicates flow direction.

| | |
|---|---|
| **Photo #:** | 1093 |
| **Date/Time of Photo:** | 7/10/2020 13:42 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Main Dairy |

**Photo Description:**

View of inside the west half of the solids separation building. Manure is put through a series of solids separators. Liquids are pumped to waste storage.. Manure solids are run through the composting drum and stored in east half of the building until they are used as bedding.


| | |
|---|---|
| **Photo #:** | 1100 |
| **Date/Time of Photo:** | 7/10/2020 13:43 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Main Dairy |

**Photo Description:**

View of the east half of the solid separation building. This area is typically used to store the bedding solids until they are used in the barns. Composting drum was currently down for repairs so no bedding had been produced for a few day. Only a small pile remained in far corner of building.

| | |
|---|---|
| **Photo #:** | 1111 |
| **Date/Time of Photo:** | 7/10/2020 13:47 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Main Dairy |

**Photo Description:**

Looking North: View of storm water channel in between freestall barns. Arrow indicates direction of flow.


| | |
|---|---|
| **Photo #:** | 1115 |
| **Date/Time of Photo:** | 7/10/2020 13:47 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Main Dairy |

**Photo Description:**

Looking North: View of storm water channel on west side of freestall barns.

| | |
|---|---|
| **Photo #:** | 1119 |
| **Date/Time of Photo:** | 7/10/2020 13:52 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Home Farm |

**Photo Description:**

Looking Northwest: View of outdoor feedlot at home farm for heifers/steers. Runoff flows southeast to a reception tank at edge of yard. Arrows indicate direction of flow.


| | |
|---|---|
| **Photo #:** | 1121 |
| **Date/Time of Photo:** | 7/10/2020 13:52 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Home Farm |

**Photo Description:**

Looking Southeast: View of outdoor feedlot runoff controls. Notice curb on left side of lot. To contain runoff Arrows indicate direction of flow.

| | |
|---|---|
| **Photo #:** | 1122 |
| **Date/Time of Photo:** | 7/10/2020 13:53 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Home Farm |

**Photo Description:**

Looking South: View of reception tank and pump on east end of outdoor feedlot. Manure & lot runoff is pumped to WSF at home farm located in the background.


| | |
|---|---|
| **Photo #:** | 1127 |
| **Date/Time of Photo:** | 7/10/2020 13:55 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Home Farm |

**Photo Description:**

Looking West: View of old heifer barn located on south side of outdoor feedlot. Barn is no longer in use

| | |
|---|---|
| **Photo #:** | 1138 |
| **Date/Time of Photo:** | 7/10/2020 13:59 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Home Farm |

**Photo Description:**

Looking North: View of WSF #1 at home farm also known as sample point 001 in permit. Earthen facility that was constructed in 1993. This storage receives manure and runoff from outdoor feedlot as well as solid manure from barns onsite..


| | |
|---|---|
| **Photo #:** | 1139 |
| **Date/Time of Photo:** | 7/10/2020 13:59 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Home Farm |

**Photo Description:**

Looking Northwest & down: View of MOL & MOS marker in WSF at home farm.

| | |
|---|---|
| **Photo #:** | 1141 |
| **Date/Time of Photo:** | 7/10/2020 14:01 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Home Farm |

**Photo Description:**

Looking West: View of barn on north side of outdoor lot. Manure is manually scraped into spreader on east end of barn. Manure is then either land applied or transferred into WSF onsite.


| | |
|---|---|
| **Photo #:** | 1156 |
| **Date/Time of Photo:** | 7/10/2020 14:11 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Standing at leachate collection tank looking West: View of feed storage area runoff controls. Arrows indicate direction of flow.

| | |
|---|---|
| **Photo #:** | 1166 |
| **Date/Time of Photo:** | 7/10/2020 14:15 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Standing at SE corner of feedpad looking West: View of feedpad runoff collection system. Arrows indicate direction of flow.


| | |
|---|---|
| **Photo #:** | 1169 |
| **Date/Time of Photo:** | 7/10/2020 14:16 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Standing at NE corner of feedpad looking South: View of feedpad runoff collection system. Arrows indicate direction of flow

| | |
|---|---|
| **Photo #:** | 1172 |
| **Date/Time of Photo:** | 7/10/2020 14:17 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Standing on north end of feedpad looking East: View of small area of leachate & runoff that is ponded adjacent to the feed storage area.


| | |
|---|---|
| **Photo #:** | 1178 |
| **Date/Time of Photo:** | 7/10/2020 14:19 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Standing at NW corner of feedpad looking South/: View of western edge of feedpad. Runoff controls not visible, but no sign of leachate or runoff leaving the pad.

| | |
|---|---|
| **Photo #:** | 1185 |
| **Date/Time of Photo:** | 7/10/2020 14:21 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Standing on south side of feed bunkers looking west: View of leachate collection tank. Tile along southern edge of old bunkers collects any leachate via a tile drain system. Tank is then drained into payloader bucket via blue hose and transferred to WSF onsite.


| | |
|---|---|
| **Photo #:** | 1189 |
| **Date/Time of Photo:** | 7/10/2020 14:22 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Looking northeast: View of Commodity shed at bunker site. All feed is under roof and no signs of any runoff is present.

| | |
|---|---|
| **Photo #:** | 1154 |
| **Date/Time of Photo:** | 7/10/2020 14:10 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Standing at SE corner of feeedpad looking Southeast: View of leachate runoff collection system. Arrow pointing to culvert that accepts overflow runoff and transfers it to a concentrated flow channel and crop field.


| | |
|---|---|
| **Photo #:** | 1159 |
| **Date/Time of Photo:** | 7/10/2020 14:11 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Standing on east side of culvert that accepts overflow runoff from feed storage area, looking down: View of accumulated feed solids that have left the feed storage area and settled out in concentrated flow channel.

| | |
|---|---|
| **Photo #:** | 1163 |
| **Date/Time of Photo:** | 7/10/2020 14:13 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Standing on east side of feed storage area looking south towards WSF.: view of concentrated flow channel for overflow from feed storage runoff collection system. Arrows indicate direction of flow. Vegetation was prevalent & showed no sign of excess nutrients in this area.


| | |
|---|---|
| **Photo #:** | 1204 |
| **Date/Time of Photo:** | 7/10/2020 14:29 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Standing at NE corner of WSF looking Southwest: View of WSF at bunker site.

| | |
|---|---|
| **Photo #:** | 1193 |
| **Date/Time of Photo:** | 7/10/2020 14:24 |
| **Photo By:** | Brian Hanson |
| **Photo Location:** | Bunker Site |

**Photo Description:**

Standing at NW corner of WSF, looking east: View of marker system in WSF to calculate volumes and indicate useable depths.

**SUMMARY:**

Substantial Compliance

- The permittee is currently in substantial compliance with the permit.

Areas of Concern

- Small area of leachate on northeast corner of feedpad needs to be cleaned up and drainage corrected to prevent this from happening in the future.
- South side of bunker walls appear to be deteriorating and maintenance of the these wall should occur to reduce the chance of leachate from leaving the feedpad

Permit Violations

- No violations were observed during the inspection.

Action Items

- Small area of leachate on northeast corner of feedpad needs to be cleaned up and drainage corrected to prevent this from happening in the future. Submit documentation showing cleanup of this area to the department by 8/20/2020.
- Submit a complete reissuance application by 10/31/2020. See additional details below.

Required in Next Permit Term

- WSF #1, also referred to as the manure pit at the Home Farm is an earthen lined facility that was constructed in 1993 and has not been evaluated since the time of construction. An engineering evaluation of this facility will be required along with the installation of any necessary corrective actions during the next permit term.

Materials Required as part of the Permit Application

Required materials must be submitted together as a complete permit application through the ePermitting System: http://dnr.wi.gov/permits/water/. The system will not allow you to electronically sign and submit your application until all of the following are included:

• 3400-025 form (Livestock/Poultry Operation WPDES Permit Application)

• 3400-025A form (Animal Units Calculation Worksheet)

• 3400-025G form (Evaluated Facilities of Systems Checklist)

• 3400-025C form (Reviewable Facilities of Systems Checklist)

• A soil survey map of the dairy's production area

• A labeled aerial map showing the existing and proposed features and structures of the dairy's production area

• Calculations documenting days liquid manure and process wastewater storage

• Supporting documentation for days storage calculations

• A complete 5-year Nutrient Management Plan (NMP). If necessary, include a description of permanent spray irrigation systems and any other landspreading or treatment systems (proposed or active)

• Plans and specifications for any proposed facilities